## PATENT COOPERATION TREATY

# **PCT**

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	FOR FURTHER ACTION See Form PCT/IPEA/416						
International application No.	International filing date (day/	nonth/year) Priority date (day/month/year)					
PCT/SE2004/000896	09.06.2004	24.07.2003					
International Patent Classification (IPC) or national classification and IPC							
B23P 15/26							
Applicant							
SWEP International AB et al							
This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.							
2. This REPORT consists of a total of 3 sheets, including this cover sheet.							
3. This report is also accompanied by ANNEXES, comprising:							
1 · · · · · · · · · · · · · · · · · · ·		<del></del>					
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).							
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.							
b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s))							
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, containing a sequence listing and/or tables related thereto, in electronic form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).							
4. This report contains indications re	elating to the following items:	,					
Box No. I Basis of	f the report						
Box No. II Priority							
Box No. III Non-est	Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability						
Box No. IV Lack of	unity of invention						
Box No. V  Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
Box No. VI Certain documents cited							
Box No. VII Certain defects in the international application							
Box No. VIII Certain observations on the international application							
Date of submission of the demand	Dat	e of completion of this report					
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17.02.2005	18	18.10.2005					
Name and mailing address of the IPEA/SI		Authorized officer					
Patent- och registreringsverket							
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Form PCT/IPEA/409 (cover sheet) (April 2005)							

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/SE2004/000896

Box	No. I	Basis o	f the report					
1.	With r	egard to the l	anguage, this report is based on:		-			
		the internation	onal application in the language in which it was	filed				
		a translation of the international application into which is the language of a translation furnished for the purposes of:						
	international search (Rules 12.3(a) and 23.1(b))							
	publication of the international application (Rule 12.4(a))							
	international preliminary examination (Rules 55.2(a) and/or 55.3(a))							
	2. With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):							
		the internati	onal application as originally filed/furnished					
	$\boxtimes$	the descript	ion:					
		pages <u>1</u>						
		pages*	receive					
	<b>~</b> 7	pages*	receive	d by this Authority on				
	$\bowtie$	the claims:						
	•	pages 8			as originally filed/furnished			
		pages*	receive	<del></del>	ny statement) under Article 19			
		pages*		d by this Authority on				
	$\square$	the drawing			· · · · · · · · · · · · · · · · · · ·			
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		a sequence l	listing and/or any related table(s) - see Supplem					
3.			nents have resulted in the cancellation of:		Ç			
		T th	e description, pages					
			e claims, Nos.					
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		L an	y table(s) related to the sequence listing (specify	y):				
4.		This report made, since 70.2(c)).	has been established as if (some of) the amen they have been considered to go beyond the d	dments annexed to this report isclosure as filed, as indicated	and listed below had not been in the Supplemental Box (Rule			
		th	e description, pages					
			e claims, Nos.					
		F-7	e drawings, sheets/figs					
			e sequence listing (specify):					
			y table(s) related to the sequence listing (specify					
	* If item 4 applies, some or all of those sheets may be marked "superseded."							
			me or all of those sheets may be marked "super x No. I) (April 2005)	seaed."				

#### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/SE2004/000896

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

YES Claims Novelty (N) 1-5 Claims Inventive step (IS) Claims YES 1-5 Claims NO Industrial applicability (IA) Claims YES Claims NO

#### 2. Citations and explanations (Rule 70.7)

Documents cited in the International Search Report:

D1: GB 2129538 A D2: US 4099928 A D3: GB 2048130 A

D4: US 5908070 A

D5: US 2003/0121649 A1

New claims have been filed on 27 April 2005 where old claim 6 has been cancelled.

#### Claims 1-5

The invention defined in claims 1-5 is not disclosed by any of the cited documents.

The cited prior art does not give any indication that would lead a person skilled in the art to the claimed method of manufacturing a plate heat exchanger according to claims 1-5. Therefore, the invention claimed in claims 1-5 is not obvious to a person skilled in the art.

Accordingly, the invention defined in claims 1-5 is novel and is considered to involve an inventive step.

The invention is industrially applicable.

The Swedish Patent Office PCT International Application

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5. A method according to claim 1,

c h a r a c t e r i s e d in that the two holes in a pair of walls forming a port hole in a heat exchanger plate are of elliptic shape and angularly displaced (Figs. 16-20).

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